

## PATENT ABSTRACTS OF JAPAN

(11)Publication number : 2002-235075

(43)Date of publication of application : 23.08.2002

(51)Int.Cl.

C09K 11/06  
C07D223/14  
H05B 33/14

(21)Application number : 2001-033683

(71)Applicant : FUJI PHOTO FILM CO LTD

(22)Date of filing : 09.02.2001

(72)Inventor : IGARASHI TATSUYA

## (54) AZEPINE DERIVATIVE, LIGHT EMISSION ELEMENT MATERIAL AND LIGHT EMISSION ELEMENT

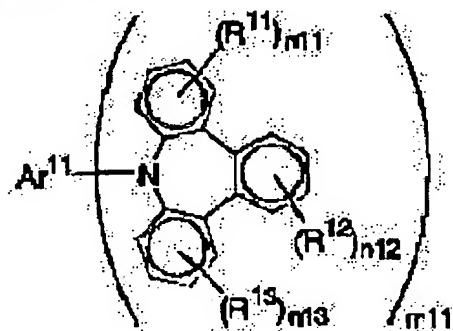
## (57)Abstract:

**PROBLEM TO BE SOLVED:** To obtain a light emission element material which can be used for obtaining light emission elements capable of emitting light in high brightness and having excellent durability, to provide the light emission element using the same, and to obtain a new azepine derivative which can be used as a raw material for the light emission elements.

**SOLUTION:** The material for the light emission elements comprises a compound represented by formula (1) [Ar<sup>11</sup> is a monovalent or polyvalent aromatic hydrocarbon group having a ring-condensed structure of three or more rings, a monovalent or polyvalent aromatic heterocyclic group having a ring-condensed structure of three or more rings, or a group comprising a combination of the monovalent or polyvalent aromatic hydrocarbon group or the monovalent or polyvalent aromatic heterocyclic group with one or more aryl groups, arylene groups, heteroaryl groups and/or heteroarylene groups;

R<sup>11</sup>, R<sup>12</sup> and R<sup>13</sup> are each a substituent; n<sub>11</sub>, n<sub>12</sub>, and n<sub>13</sub> are each an integer of 0 to 4; m<sub>11</sub> is an integer of ≥1. The light emission element has a light emission layer or a plurality of organic compound layers containing the light emission layer between a pair of electrodes, wherein at least one layer of the light emission layer or the organic compound layers contains the light emission element material.

— 式(1) —



## LEGAL STATUS

[Date of request for examination]

[Date of sending the examiner's decision of rejection]

[Kind of final disposal of application other than the examiner's decision of rejection or application converted registration]

[Date of final disposal for application]

[Patent number]

[Date of registration]

[Number of appeal against examiner's decision  
of rejection]

[Date of requesting appeal against examiner's  
decision of rejection]

[Date of extinction of right]

Copyright (C); 1998,2003 Japan Patent Office